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**United States Patent** [19]**Huang****Patent Number:** **5,890,856****Date of Patent:** **Apr. 6, 1999****[54] CROSSBAR DEVICE FOR LIMITING CARGOES FROM FALLING**

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Taichung, Taiwan****[21] Appl. No.:** **92,148****[22] Filed:** **Jun. 5, 1998****[51] Int. Cl.:** **B60P 7/15****[52] U.S. Cl.:** **410/151; 410/143; 410/145****[58] Field of Search:** **410/143, 145,  
410/151; 211/105.3; 254/12, 95, 109; 248/354.1,  
354.6, 354.7, 200.1; 74/167, 169, 141.5****[56] References Cited****U.S. PATENT DOCUMENTS**

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**[57] ABSTRACT**

A crossbar device includes an outer tube with an inner tube retractably received in the outer tube, an adjusting device disposed to the outer tube and having two pawl members pivotally disposed therein which has a connecting member connected therebetween and the connecting member is actuated by an actuating member disposed to the adjusting device. A pressing member is movably received in the adjusting device and has an end thereof engaged with one of the pawl [member] members so that when pushing the pushing member downwardly, the pawl members are pivoted and disengaged from [an] a toothed surface of the inner tube so that the inner tube is freely moved corresponding to the outer tube.

**5 Claims, 7 Drawing Sheets**